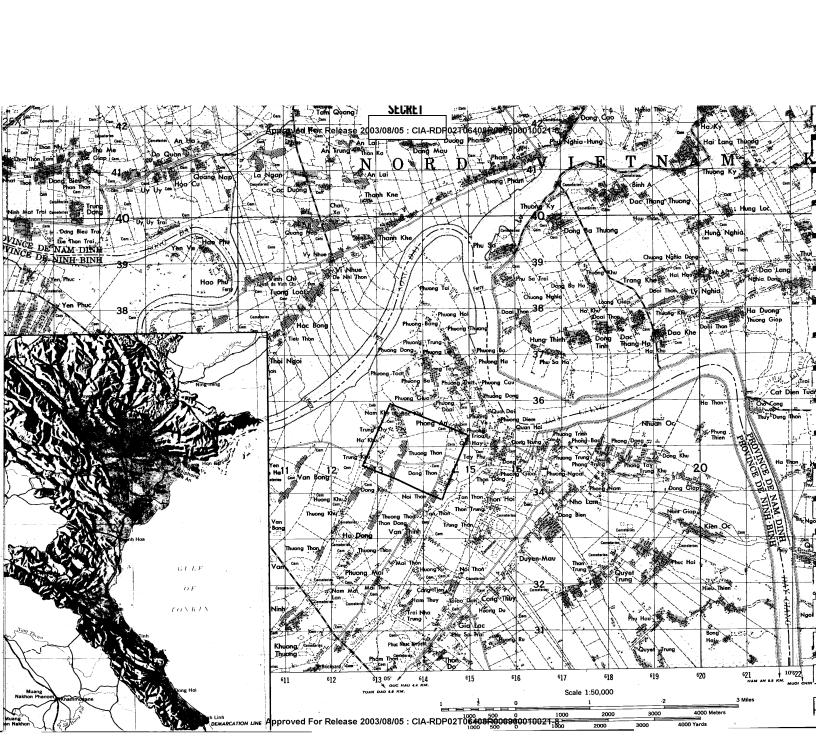
Approved For Release 2003/ 408R000900010021-8

STUDY OF RICE CROPS NEAR NINH BINH, NORTH VIETNAM 20-12N 106-07E

Declass Review by NIMA/DOD

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Approved For Release 2003/08/05 : CIA-RDP02T06408R000900010021-8

SECRET 3 March 1966

MEMORANDUM FOR: Chairman, BCW Task Force

southeast of Ninh Binh at 2012N 10607E.

SUBJECT:

Interim Report on North Vietnam Crop Study

REFERENCE:

Requirement No. TF-51 (SIC-5-6) NPIC Project No. 11221-6

1. This memorandum is a partial answer to a requirement requesting a study of the feasibility of determining the type, vigor and crop season of agriculture in North Vietnam by use of aerial photography. The original requirement requested that this be carried out on a line running from the vicinity of Vinh (1840N 10545E) thru Thanh Hoa (1945N 10545E) to the vicinity of Haiphong (2100N 10645E). A study of this line was not feasible due to the lack of suitable periodic coverage over the complete area and the size of the area. Verbal approval was given by the requester to deviate from this line and select a typical

sample area. An area of approximately $l^{\frac{1}{2}}$ square miles was selected

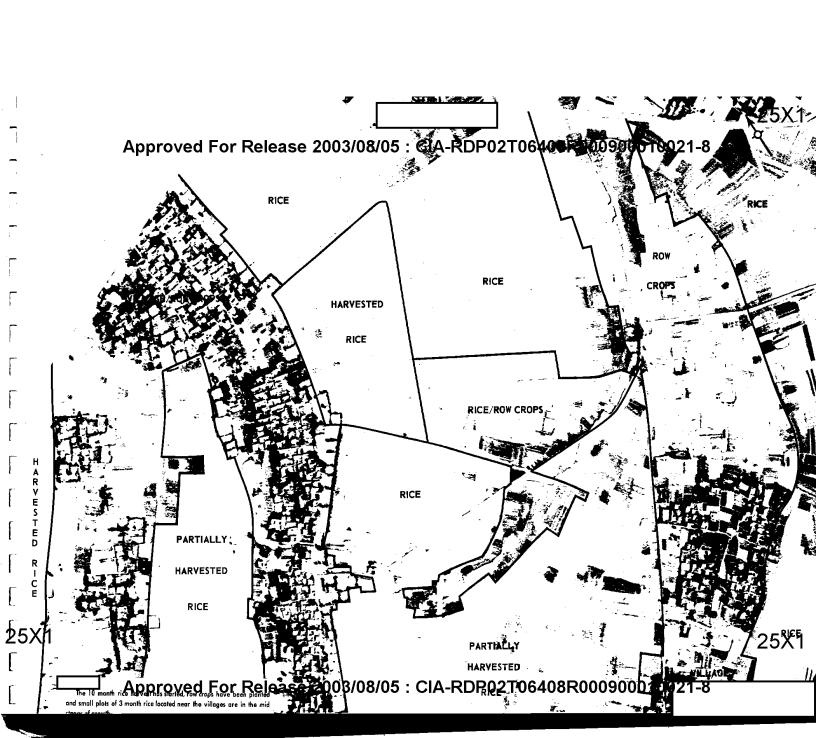
- 2. Within this area the crops were divided into two catagories, rice and row crops. There are two main rice crops a year, a fifth month, (January to June dry season crop) and a tenth month (June to January wet season) crop. Small plots of rice generally mixed with the plots of row crops near the villages are grown at different times. Rice planting was not detected on this photography, however good quality low altitude photography would probably reveal this. The only change during the growth of the rice as it appeared on high level photography was in the tone of the rice imagery. Near harvest time a slightly rough or textured appearance develops. Harvest can be detected by the removal of the rice from the fields.
- 3. Row crops were generally of the smaller type such as vegetables and not the larger type such as corn or cane. More land was planted to row crops during the fifth month season. The fields which had been used for row crops in the fifth month season were switched to rice for the tenth month season.
- 4. Plant vigor and yield could not be evaluated at this time from high level photography. It might be possible to give some estimate of plant vigor by height measurement on low altitude oblique photography. Some estimate of yield could perhaps be made from the measurements of plant density on low altitude, good quality vertical photography. Some

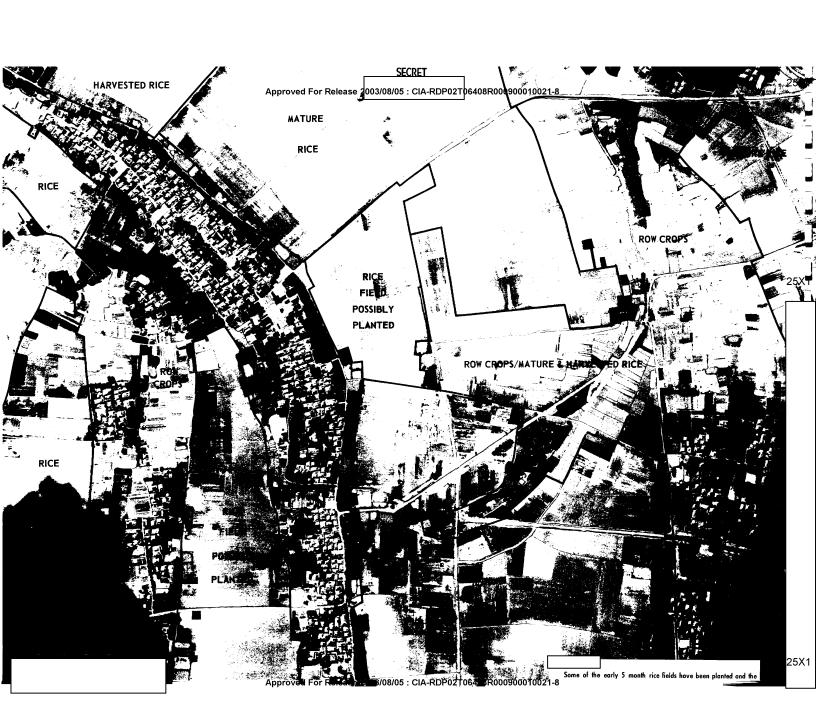
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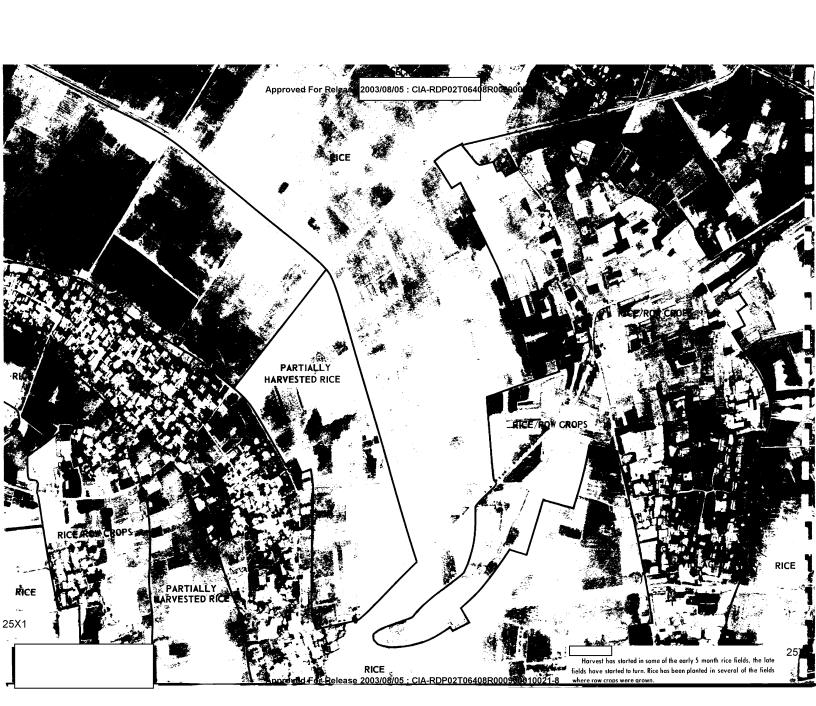
25X1 Approved For Release 2003/ 08/05 : CIA-RDP02T06408R000900010021-8 3 March 1966 Page 2 SUBJECT: Interim Report on North Vietnam Crop Study indication of yield could possibly be derived from the interpretation of natural environmental factors and agricultural activity. Work is continuing on this project. A minimum of three additional areas in the Red River Basin are being selected and studied on the basis of available timely photography to try and determine the exact planting date of rice and check on the progression of planting dates in different locals. 25X1 25X1 Assistant for Photographic Analysis, NPIC Attachment:
*Photography used in attached photographic supplement Distribution:
Cys 1&2 - BCW Task Force w/att
3 - PAG/NPIC
4 - IPO/PAG/NPIC 25X1 - GMD/PAG/NPIC ll - AFNIE-BA Attn: - CIA/IAD - OS/NPIC 12 - OPNAV-922Y3 Att 13 - Army/SPAD Attn: Approved For Release 2003/08/05: CIA-RDP02T06408R000900010021-8

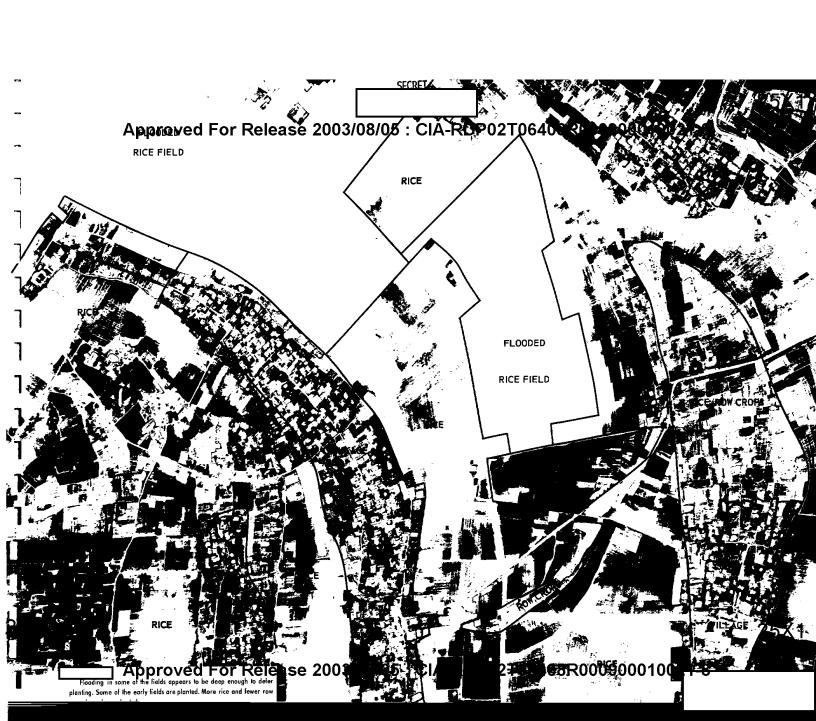
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Individual rice plants are visible on this large scale photography, however, area coverage is limited.

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Some row crops are visible in the foreground. The 10 month rice will probably be harvested in December or January.

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